

Update on  
PREK-8 MATH  
PROGRAM REVIEW

A presentation to  
the Public Schools of  
Brookline School  
Committee  
Thursday, December  
6, 2018

# WHERE ARE WE IN THE MATH PR PROCESS



- Identify strengths and weaknesses in current program
- Examine current curricula, professional development and instructional practices
- Review standardized measures of growth (local and state assessments)
- Outline priorities

- Develop actions timelines and deliverables
- Determine measures of success
- Establish necessary budget

- Implement Plan according to timeline established in Planning phase
- Monitor implementation

- Process analysis
- Plan Implementation
- Analyzing Results
- Synthesizing Feedback of stakeholders

# WHERE ARE WE IN THE MPR PROCESS



# 2018-19 COMMITTEE MEMBERSHIP

## Parents

- ❖ Cherita Cloy, Coolidge Corner School parent
- ❖ Alissa Greenwood, Runkle parent
- ❖ Aaron Hoffman, Pierce parent
- ❖ Faiza Khan, Driscoll parent
- ❖ Wadner Oge, Coolidge Corner School parent

## Teachers

- ❖ Valia Bourmpoula, MS math teacher, Heath
- ❖ Emily Redburn, 1<sup>st</sup> grade teacher, Heath
- ❖ Karen Shashoua, 2<sup>nd</sup> grade teacher, Heath
- ❖ Natalie Dean, New Teacher Mentor
- ❖ Alison Hansel, Math Specialist, Pierce
- ❖ Hilory Paster, Math Specialist, Lincoln
- ❖ Katy Reilly-McGraw, Math Specialist, Lawrence

## District Administrators

- ❖ Nicole Gittens, Deputy Superintendent of Teaching and Learning
- ❖ Kathleen Hubbard, PreK-8 Mathematics Coordinator (Content Facilitator)
- ❖ Josh Paris, Math Department Chair, Brookline High School
- ❖ Margaret Eberhardt, Early Education Coordinator
- ❖ Meg Maccini, Senior Director of Programs (Process facilitator)
- ❖ Mary Brown, Senior Director of Teaching and Learning

## 2017-18 Committee Members

- ❖ Nadine Eckstrom
- ❖ Vicki Milstein

# CENTER FOR COLLABORATIVE EDUCATION

The Center for Collaborative Education (CCE) Research, Evaluation and Policy team have been critical partners in the collection, review and analysis of data.

Andresse St. Rose, Senior Director of Research, Evaluation and Policy  
Michael Berardino, Senior Associate, Research, Evaluation and Policy

- Principal focus group conducted
- (3) Parent focus groups conducted
- Prek-8 parents surveyed
- All PSB 7th grade students surveyed
- Document review including disaggregated student data on enrollment and performance over time
- All data CCE collected is being analyzed and compiled into a final report, which will be included in Phase I report.

# WHAT HAS TAKEN PLACE?

## Program Review Committee

- Met monthly since January 2018
- Reviewed research and effective math teaching practices
- Started draft on a new vision for prek-8 mathematics
- Reviewed district data and developed areas for further inquiry
- Hosted Program Review Committee Open House for Brookline Parents and School Committee members to meet committee members
- Conducted classroom visits to Newton Public Schools and PSB math classrooms

## Center for Collaborative Education

- Reviewed all the data collected from staff and student surveys. Conducted parent focus groups.
- Presented initial report on findings to Program Review Committee
- In process of analyzing data from PreK-8 parent survey (open for 8 weeks- closed November 30)

# COMMUNITY PARTICIPATION & COMMUNICATION

There are four key ways that community members have had input thus far into the PreK-8 Math Review Process:

1. Parent/stakeholder focus group conducted with CCE
1. Parent/stakeholder survey
1. Held open forum to hear update on committee work May 30
1. Process updates shared via PSB Website

# DELIVERABLES

From 2/1/18 presentation to School Committee

By July 2018, we will...

- Have a clear vision statement for preK-8 Mathematics education for the Public Schools of Brookline students (Still in development 12/3/18)
- Present preliminary findings and outline for Phase 1 report
  - June 2018: Initial update provided to Curriculum Sub-Committee
  - July 2018: Written update to full School Committee
  - October 2018: Status update provided to Curriculum Sub-Committee

By the end of December 2018, we will...

- Publish Phase 1 report (Revised timeline February 2019)
- Begin the Phase 2 action plan (To begin in January 2019)
- Share recommendations and budget implications
  - (Revised to occur by May 2019 per Superintendent's goal statement)



# RELATED WORK IN SUPPORT OF PROGRAM REVIEW

## Program Review



Grade 6-8  
Curriculum Material  
Review

Spring 2018

Grade K-5  
Curriculum Material  
Review

Spring 2019

# CURRICULUM MATERIALS REVIEW

## Identify

- Identify materials used nationally and locally
- Review current research on effectiveness of materials

## Review

- Review materials using established criteria
- Synthesize all review data and finalize recommendations

## Plan

- Solicit teacher volunteers for pilot of selected materials
- Plan for Professional Development using train the trainer model

## Pilot

- Pilot teachers implement the selected materials and provide feedback

# NEXT STEPS

## **PROGRAM REVIEW**

- Complete the Phase 1 Report
- Identify priorities, actions, timelines and deliverables for Phase II: “Plan”

## **MATERIALS REVIEW**

- Outline recommendations and budget implications from 6-8 materials review process (January 2019)
- Complete materials review process for PreK-5 (in process)

# Questions and Comments